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APSTRACT

Addressed primarily to the prospective as well as the working, speech and hearing clinician, the study investigated the current practices and status of public school speech and hearing programs in Mississippi. A questionnaire was forwarded to 49 speech and hearing clinicians to determine professional title and relationships, screening and diagnosis, classification and distribution of disorders, remedial procedures, supervision, and speech improvement. The results were felt to point up such needs as standardization of professional titles at the state level, more consistent and precise methods of examination of speech disorders; some standard program management practices; more joint responsibility shared with the superintendents, parents, principals, teachers, and therapist; more teacher guidance from the speech clinician. A copy of the questionnaire completed by the speech and hearing personnel is included in the appendix. (CD)



E0049588 "AND MILES TO GO"



THE STATUS OF SPEECH

PATHOLOGY AND AUDIOLOGY PROGRAMS

IN

ELEMENTARY AND SECONDARY SCHOOLS

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- A. Letter to Public School Speech and Hearing Personnel
- B. Questionnaire completed by Public School Speech and Hearing Personnel



CHAPTER I

Introduction: The Problem and the Procedure

There has been a substantial increase in the number of speech and hearing programs in recent years in the State of Mississippi. In 1952 the Mississippi State Department of Education established certification requirements for public school speech clinicians and there were then seven employed in such positions. In March, 1969, there were 49 speech clinicians employed in the public schools in Mississippi. With such a small number, remedial services for the vast majority of speech and hearing impaired children in Mississippi are obviously not being provided.

A report from the Mississippi State Department of Education, in the Title VI illan Summary of 1968-69, indicated that approximately 6 percent of the total school population were in need of therapy for speech problems. I Only 4,700 or 11.5 percent of the students estimated to require therapy for speech problems were receiving therapy during the 1968-69 school year. Title VI projected speech and hearing personnel needs for Mississippi were 450 additional Speech Clinicians, 200 teachers for the hard-of-hearing and 100 teachers of the deaf.

While this study is addressed primarily to the promective as well as the working, speech and hearing clinician, it is also written for others, too; the school administrator, school psychologists and all professions related to the problem. The objectives and efforts of the speech and hearing clinician are also the objectives and efforts of the principal, the regular classroom teacher, the school psychologist, and all who are dedicated to assist the child to overcome his handicap. The disability relating to the use of spoken language to communicate with those around him must concern us alf.

Purpose of Study

The purpose of the study was to investigate and describe the current practices and status of public school speech and hearing programs in Mississippi. The areas selected for investigation were relative to the purposes of the study and include: the present level of training and education; statistical data such as age; years of experience; professional

¹Title VI Plan Summary – 1968-69. State Department of Education, Jackson Mississippl, 1969.



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memberships; screening and diagnostic procedures utilized, types of disorders, numbers of children, and grade levels; the treatment and remedial procedures used; supervision and reporting practices and finally, speech improvement programs.

Subjects and Procedures

A mailing list of public school speech and hearing clinicians who were certified to practice in Mississippi was obtained from the Mississipp State Office of Education. In March, 1369, questionnaires were sent to each of the 49 clinicians listed. Follow-up letters were sent and phone calls were made to those clinicians who did not return the questionnaire within a month.

Eighty-two percent, or 40 of the questionnaires sent to the speech and hearing clinicians in the state were returned. Nine questionnaires were not returned for various reasons.

Table I reveals that of the forty-nine questionnaires sent to speech and hearing clinicians in the state, eighty-two percent or forty completed questionnaires were returned. Two of the clinicians had moved from the state, a group of four individuals in one school system were not permitted by their supervisor to return the questionnaire, and three clinicians did not respond.

TABLE I
Responses to Questionnaires

Responses	Frequency
Returned	40
Moved from state	2
Refused to return	4
No response	3
Total	49



CHAPTER II

Public School Clinicians: Professional Definition and Relationships

This chapter will discuss the information received descriptive of titles, training, experience, supervision, and membership in professional organizations of clinicians working with speech and hearing disorders in the public schools of Mississippi. This data constitute a definition of the professional public school clinician and a delineation of his professional relationships.

Professional Titles

As shown in Table 2, replies to the questionnaires indicate that the title of "Speech Therapist" has fairly well permeated the school system. Sixteen of the respondents employ this title, seven use the term "Speech Correctionist," and four employ the title "Speech Pathologist." Also, of interest is the fact that six respondents reported "Hearing" as well as "Speech" in their professional titles.

TABLE 2

Professional Titles Reported by Questionnaire Respondents

Professional Titles	Frequency
Speech Therapist	16
Speech Correctionist	7
Speech Pathologist	4
Speech and Hearing Therapist	2
Speech and Hearing Clinician	1
Speech and Hearing Pathologist	1
Director of Speech and Hearing	1
Assistant Director of Speech and Hearing	1
Supervisor and Coordinator of Special Education	1
Supervisor of Speech Therapy and Special Education	1
Not recorded	5
Total	40



Speech and hearing personnel are relatively young, as shown in Table 3. Twenty-five are 30 years or younger, while only seven are over 40 years old.

TABLE 3

Age of Speech Clinicians Responding to State Survey

Ag:	Frequenc
20 · 25	17
26 - 30	8
31 - 35	2
36 - 40	6
41 - 45	1
48 - 50	2
over 50	3
not recorded	1
Total	40



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Number of Years Experience in Therapy

Table 4 indicates that the speech clinicians are also young in terms of experience. Experience ranged from one to fifteen years. Twenty-two of the respondents reported less than four years of experience; thirteen had one year or less of experience, while only ten clinicians reported seven or more years of experience.

TABLE 4
Number of Years Experience in Therapy

Years of Experience	Frequency
1 year	13
2 to 3 years	9
4 to 6 years	8
7 to 10 years	6
11 to 15 years	4
16 to 20 years	0
over 20 years	0
Total	40

Regular Classroom Teaching Experience

A majority of the speech and hearing clinicians have not been regular classroom teachers; however, fifteen clinicians indicated that they had been employed as classroom teachers in either elementary or secondary schools with classroom experience ranging from one month to 25 years.



TABLE 5

Number of Years Experience as a Regular Classroom Teacher

Years of Experience	Frequency
One Month	1
One Year	4
Two Years	1
Three Years	2
Four Years	1
Eight Years	1
Ten Years	1
Eleven Years	j 1
Twelve Years	1
Twenty Years	1
Twenty-five Years	1
Total	15

Desirability of Teacher Certification

Twenty-six of the respondents questioned indicated that they felt that a teacher's certificate was desirable, while thirteen responded negatively.

TABLE 6

Desirability of Teacher Certification

Desirable	•	Frequency
Yes		26
No	;	13
Not Recorded	· ·	1
Total		40



Extent of Training of Speech and Hearing Personnel

All respondents reported having bachelor's degrees, twenty reported having the master's degree with five reporting post master's work.

Bachelor's Deg se with Major

Twenty-three reported receiving their bachelor's degree with a major in the Speech Correction field [Table 8], five also reported training in Audiology. There were ten who reported majors other than speech and hearing.

TABLE 7

Bachelor's Degree with Major

Major	Frequency
English, Speech, and Speech Correction	
Special Education	1
Speech Pathology	4
Speech Therapy	5
Speech Correction	8
Speech	2
Speech and Hearing	3
Theatre and Speech	1
English and Speech	1
Speech Pathology and Audiology	1
Accounting	1
Home Economics and Speech and Hearing	1
Elementary Education	2
Home Economics	2
Not recorded	7
Total	40



University or College Awarding Bachelor's Degrees

Approximately half of the respondents received their training from Miss'ssippi institutions: 10 received their bachelor's degrees from Mississippi State College for Women; eight, from the University of Southern Mississippi; two, from Mississippi College; and one from Jackson State College. Eleven respondents received the bachelor's degree from various other colleges across the nation.

TABLE 8
University or College Awarding Bachelor's Degrees

University or College	Frequency
Mississippi State College for \Vomen	10
University of Southern Mississippi	8
Mississippi College	2
Jackson State College	1
Seattle Pacific	1
Southern University	1
Brescia College	1
University of Southern Louis ana	2
Texas Christian University	1
Oklahoma University	1
Michigan State University	1
Peabody College	1
University of Maryland	1
University of Wisconsin	1
Not recorded	8
Total	40



Master's Degree with Major

Twenty of the respondents reported having a master's degree, seventeen of the twenty received their degree in the area of Speech or Speech and Hearing; two reported a major in elementary education; and two majored in Special Education.

TABLE 9

Master's Degree with Major

Major	Frequency
Speech Correction	2
Speech Therapy	4
Speech Pathology	6
Speech	3
Speech Pathology and Audiology	1
Special Education	2
Elementary Education	2
Total	20

University or College Awarding Master's Degree

All but seven of the respondents received their master's degree from Mississippi institutions: six, from the University of Southern Mississippi; five, from Mississippi State College for Women; and one, from the University of Mississippi.



TABLE 10
University or College Awarding Master's Degree

University or College	Frequency
Univ of Southern Mississippi	6
Florida A & M University	1
Mississippi State College for Women	5
Peabody College	2
Louisiana State University	1
Mississippi State University	1
University of Mississippi	1
University of Alabama	1
Indiana University	i
Not recorded	1
Total	20

Most Valuable Supplementary Auga of Training

The respondents considered psychology, special education and general speech as the most valuable supplementary areas of training.



TABLE 11

Most Valuable Supplementary Area of Training

Area	Frequency
Psychology	26
Special Education	13
General Speech	6
General Education	2
Language Disorder	1
Anthropology	1
Speech and Drama	1
Total	50*

^{*}Since some of the clinicians designated more than one area as most valuable this total exceeded 40.

Membership in Professional Organizations

Mississippi clinicians a.1 quite active in professional organizations. When questioned about membership in professional organizations, twenty-three respondents stated that they were members of the Mississippi Education Association. Of those who were members of special education professional organizations, four respondents reported membership in the Council for Exceptional Children; twenty-one, in the Mississippi State Speech and Hearing Association, and fourteen, in the American Speech and Hearing Association.



TABLE 12

Membership Reported in Professional Organizations

Organization I		
State Education Association	23	
National Education Association	10	
A State Speech and Hearing Association	22	
American Speech and Hearing Association	14	
Dept. Classroom Teacher Association	1	
Meridian Teacher Association	2	
Council for Exceptional Children	4	
Mississippi Retarded Children	1	
National Association of Hearing and Speech Agencies	1	
Delta Kappa Gamma	1	
Delta Alpha Kappa	1	
Volta Bureau	1	
American Association of University Women	1	
Journal Group of the American Speech & Hearing Association	1	
Mississippi Speech Association	1	
Not recorded	4	
Total	108	

American Speech and Hearing Association Certification

Eleven of the speech clinicians stated that they held the Certificate of Clinical Competence in Speech Pathology from ASHA, and one reported an ASHA certification in Audiology.



TABLE 13

American Speech and Hearing Association Contification

ASHA Certification	Speech Pathology	Audialogy	
Yes	11	1	
No	29	39	
Totals	40	40	

Types of Supervised Teaching During Training

As shown in Table 14, various types of supervised teaching were reported. Data indicate that all respondents had supervised experience in speech correction, but at least eight of them did not undergo supervised experience in the public school setting.

TABLE 14

Types of Supervised Teaching During Training

Supervised Teaching	Frequency
Regular Classroom Practice Teaching and Speech Clinic Practicu	m 4
Public School Speech Therapy and Speech Clinic Fracticum	18
Speech Clinic Practicum	8
Public School Speech Therapy	4
Regular Classroom Practice, Public School Speech Therapy and Speech Clinic Practicum	3
Regular Classroom Practice and Public School Speech Therapy	3
Total	40



Plans for the Next Five Years

During the next five years, a majority of the respondents plan to continue as speech and hearing clinicians, or to return to school for graduate work.

TABLE 15

Plans for the Next Five Years

Plans	Frequency
Continue as a speech and hearing clinician	27
Return to school for graduate work	20
Secure another education position such as teaching, administration, etc.	1
Find position in Speech Clinic associated with University and/or Hospital	1
Quit teaching and devote time to home	2
Unknown	2
Other (not designated)	2
Total	55*

^{*}Some respondents reported more than one plan such as continue as a speech and hearing clinician and return to school for graduate work.

Discussion

Judging from the large number of titles used, there seems to be a need at the state level to standardize the nomenclature to designate speech and hearing clinicians. The American Speech and Hearing Association presented this charge to a Committee of Terminology in January, 1964, and the following definitions were submitted for council approval and incorporated in the bylaws of ASHA, as revised January, 1965.²



²American Speech and Hearing Association, 11, Nov., 1965, p. 475.

Audiologist: specializes in diagnostic evaluation, habilitative and rehabilitative services and research related to hearing;

Speech Clinician: examines and provides remedial services for individuals with speech, voice, and language disorders.

Speech Pathologist: specializes in diagnosis, treatment, and research related to speech, voice, and language problems.

It is apparent that effort by the American Speech and Hearing Association to find a substitute for the term "therapist" has so far had little import on the public schools in Mississippi to effect a change in the title by which public school speech and hearing personnel are titled.



CHAPTER III

Clinical Practice: Screening and Diagnosis

This chapter will discuss diagnostic measures used by public school speech and hearing clinicians, utilization of other professional disciplines in the total evaluation of the child, methods of case selection, data on grade levels for mass hearing screenings, and other material pertinent to the identification and selection of children for diagnostics and/or remodial services.

Standardized Tests Used

As can be seen in Table 16, two areas most frequently evaluated by the speech and hearing clinician (other than audiometric testing) are articulatory proficiency and vocabulary knowledge. The two tests most frequently mentioned in these categories are the Templin-Darley Articulation Test and the Peabody Picture Vocabulary Tost. It is the practice of many speech and hearing clinicians to devise their own phonetic inventories; therefore, the clinicians who did not indicate a specific articulation test were grouped under the category General Articulation Survey.



TABLE 16
Standardized Tests Used

Tests	Frequency	
Templin Darley Tests of Articulation	11	
Heina Articulation Test	2	
Bryngleson and Galaspy Articulation Test	1	
The Deep Test of Articulation	1	
Scott Foresman Speech Record	1	
General Articulation Survey	5	
Peabody Picture Vocabulary Test	18	
Goodenough-Harris Draw A-Man Test	2	
Slosson Oral Intelligence Scale	1	
Stanford-Binet Intelligence Test	1	
Idinois Test of Psycholinguistic Abilities	1	
Wepman Auditory Discrimination Test	2	
Johnson Scale of Severity of Stuttering	1	
Testing done by others	5	
Not recorded	6	

Person Responsible for Audiological Screening

The majority of audiological screening is performed by speech and hearing clinicians. It is interesting to note that two school systems reported no regular audiological screening program, and four are utilizing volunteers.



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TABLE 17
Person Responsible for Audiological Screening

Screening Done By	Frequency
Nurse	2
Audiologist	2
Speech Therapist	32
University Students	1 1
Rehabilitation Center	2
Volunteers	4
Supervisor	1 1
No Standard Screening Program	2
Total	46*

^{*}In some cases the screening is done by more than one pelson.

Person Responsible for Audiological Screening

Other than hearing screening, it was reported that the majority of differential audiological testing was done by speech clinicians, otolaryngologists, and by audiologists.



TABLE 18

Person Personsible for Audiological Testing

Testing Done By	Frequence
Audiologist	6
Otolarygnologist	3
General Physician	5
Speech Therapist	16
Health Department	2
Rehabilitation Center	2
College or University Speech and Hearing Center	J
Not recorded	4
Total	48*

^{*}Some of the clinicians reported that the testing is performed is more than one person.

Grade Level of Audiological Screening

As shown in Table 19, audiological screening was accomplished most frequently at the first grade level. However, screening and referral was a common practice in grades one through six, and less frequent in the upper grades.



TABLE 19

Grade Level of Audiological Screening

Grade	Frequency		
	Screened	By Referral	
PS	1	1	
K	0	3	
1	21	3	
2	15	4	
3	15	5	
4	11	ວ່	
5	14	5	
6	11	6	
7	6	7	
8	3	7	
9	4	7	
10	2	7	
11	2	7	
12	2	7	
Preschool and Special Education	1		
Mental Retardation	1	-	
Enrolled in therapy program	1	_	
Not recorded (7)			

Location of Children with Disorders

The vast majority of the children with speech and hearing disorders are located by teacher referrals and by individual screening. In general, most respondents reported the use of more than one method for locating children with disorders.



TABLE 20

Location of Children with Disorders

Methods of Location	Frequency
Teacher Referral	36
Individual Screening	33
Class Visitations	8
Questionnaire or Inventory	2
Parent and Doctor Referrals	2
Not recorded	1
Total	82*

^{*}Most clinicians reported more than one method for locating children with disorders.

Availability of Tests and Records to Therapists

In most cases, the student files of tests and records are routinely available to the speech and hearing clinician as shown in Table 21.

TAULE 21

Availability of Tests and Records to Therapists

Availability of Tests	Vision Tests	Intelligence Tests	Achievement Tests	Health Records	Cumulative Records
Routinely	24	27	29	28	33
Only in Special Cases	4	7	4	6	3
Not at All	3	0	0	0	0
Not recorded	9	6	7	6	4
Totals	40	40	40	40	40



Frequency of Referrals

According to Table 22, speech clinicians occasionally refer students to outside agencies for clarification of diagnosis or further evaluation. The medical profession, psychological services, the university speech and hearing clinic and rehabilitation centers are examples of such agencies. The most frequent need for follow up is reported to be in the medical and psychological areas.

Frequency of Referrals

Referrai. Made	Univ. Sp. and Hear, Clinic	Rehabilitation Agencies	Medical Profession	Psychological Services
Frequently	3	1	7	7
Occasionally	y 20	16	29	24
Never	11	11	2	4
Not recorde	d 6	12	2	5
Totals	40	43	40	40

Medical Referrals for Hearing Loss

The majority of the respondents stated that medical referrals were made when either moderate or severe loss was discovered. Occasionally, referrals were made when the child failed the audiometric screening or when a mild loss was discovered.



TABLE 23

Medical Referrals for Hearing Loss

Referred	Frequency	
Fails Audiometric Screening	14	
Displays Mild Loss	13	
Displays Moderate Loss	23	
Displays Severe Loss	23	
No Medical Referrals are made	2	
If Recommended by College Testing Center	2	
Not Recorded	2	

Approval of Admission to Program

The data in Table 24 show that parent's permission is usually required in order that a child be admitted to the therapy program. In some cases approval is given by the principal; in other cases, by the speech clinician.

Ten respondents reported that the principal must approve, while another ten stated that only the speech clinician must approve. Five reported that a screening committee was responsible for admission to the therapy program.

TABLE 24

Approval of Admission to Program

Approved by	Frequency
Parent	22
Physician	0
Principal	10
Supervisor	2
Speech Therapist	10
Screening Committee	5
Teacher	2
Special Education Supervisor	1
Special Service Coordinator	1
Not Recorded	2
Total	45*

^{*}At times approval must be obtained from more than one person.

Who Influences Scheduling

The classroom teacher appears to wield the most influence in the time scheduling of children for services.

TABLE 25
Who Influencer Scheduling

Classroom Teacher	Principal	Superintenden		
15	1	0		
15	6	0		
7	19	23		
3	14	17		
40	40	40		
	15 15 7 3	15 6 7 19 3 14		



Discussion

It is evident hat there are many types of standardized and non-standardized tests used by respondents. Intelligence as well as speech and audiological tests were administered by clinicians. It suggests a need for more consistent and precise methods of examination of speech disorders and a careful examination of current procedures to determine whether they are suitable and adequate.

It is evident that the majority of children with speech and hearing disorders are located by teacher referrals and individual screening by the speech and hearing chincian. When the speech and hearing chincian employs the referral method, teacher cooperation is important. It is also necessary to educate the teacher as to speech disorders.

Since the speech and hearing clinician frequently does hearing screening, it is vital that the clinician have a basic knowledge of audiology in order to properly test, and to know when to refer. It is generally recommended that the services of an audiologist or otologist be secured for children for whom screening has suggested a hearing impairment.

The classroom teacher is reported by the respondents as either greatly or moderately influencing when a child may be scheduled for therapy. Therapy sessions may be scheduled around art, music, physical education, assembly programs, and other activities. Therefore, the success of a speech and hearing program depends upon the understanding and cooperation that exists between the clinician and other school personnel, especially in the area of scheduling therapy.

It was revealed that clinicians failed to make referrals or made them only occasionally to outside agencies or specialists. Perhaps they consider themselves adequate without consultation (with the exception of some cases that demand medical attention); they may be fearful of consultation with other specialists; they :nay lack time or knowledge of consultative or follow-up procedures.



CHAPTER IV

Clinical Practice: Classification and Distribution of Disorders

The topics discussed in this chapter include the number of schools in which therapy is provided, grade level of caseload, number of therapy students in each grade, caseload distribution, and classification of students as to types of disorders.

Classification of Students

The majority of students who are receiving speech therapy have articulation problems. As seen in Table 26, 2293 children are reported to the receiving articulation therapy, 138 are receiving therapy for stuttering, 48 for voice problems, 55 for hearing impairments, 19 cerebral palsy, 65 delayed speech, 120 mental retardation, 16 cleft palate, 2 brain injury or damage, 13 tongue thrusting, 5 language and 2 articulation therapy to compensate for open bite.



TABLE 26

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Key & Totaly

Art.Articulation, 2393 St.Stutteren, 138 Voices 88 HH-Nard-of-haering 55 CF-Caregraf Pally, 10 DS-Delayr d Sperich, 65

MR-Mental Retardation 120 CI P Creft Palate 16 91-Bren Injury or Demoge 2 T-Torque Thruster 13 L Language 5 08-Open Bite 2

Cassioad from one of five schools

ERIC

Grade Level of Caseload

Responses indicate that the majority of therapy is accomplished with students between grades one and six. Only two respondents report cases in the twelfth grade. Some work is also being fone in Special Education, Pre-School and Kindergarten; however, only a relatively few students are involved. As seen in Table 27, only a few clinicians work at the high school level.

TABLE 27

Grade Level of Caseload

Grade	Frequency
Special Education	7
Pre-School	2
Kindergarten	5
First Grade	38
Second Grade	39
Third Grade	38
Fourth Grade	36
Fifth Grade	32
Sixth Grade	32
Seventh Grade	15
Eighth Grade	8
Ninth Grade	3
Tenth Grade	2
Eleventh Grade	2
Twelfth Grade	2



Number of Therapy Students in Each Grade

Even more significant than the grade level of the clinicians' caseload is the actual number of students involved in their program by grade; a total of 391 students were reported in the first grade, 290 in the second grade, 186 in the third grade, 129 in the fourth grade, 112 in the fifth grade, 82 in the sixth grade, 36 in the seventh grade, and only 13 in the eighth grade. No students were reported in the ninth, tenth, eleventh, or twelfth grade by these clinicians. Only one student was reported in kindergarten. It would appear that the first two grades are where the speech correction work is concentrated most heavily.

Twenty-three clinicians did not include the number of therapy students in each grade; therefore, those were not reported in Table 28.

TABLE 28

Number of Therapy Students in Each Grade

Clinicians																		
Grade	_ 1	2	3	4	5	6	7	8	8	10	11	12	13	14	15	16	17	Total
Sp Ed		4					5				8		4	_		5		26
Pre Sch													1					1
Kdg										1								1
First	5	7	27	60	34	36	18	11	15	25	2		49	20	26	56	31	122
Second	14	21	13	11	20	17	12	10	30	30	9	31	25	7	15	25	25	315
Third	10	15	10	4	23	11	25	8	15	15	ა	6	· 9	5	10	9	8	193
Feurth	10	11	5		19	8	12	3	8	10	7	3	13	4	8	ð	6	135
Fifth	12	19	7		15	9	18	2	4		11	1	9	1	10	3	6	118
Sixth	12	12	7		10	10	7	1	4	2	2	5	5		5	1	7	89
Seventh.	8		6		2		12				1	4			3			36
Eighth	4					•						5	2		1			13
Ninth																		0
Tenth																		0
Eleventh																		0
Twelfth																		0



Discussion

There is a concentration of services at the primary grade levels and the vast majority of pupils in the caseload are receiving attention because of their articulation. However, the variety of practice observed at lest to the fact that the clinicians are not in agreement as to what grade levels speech correction should be concentrated.

Articulation problems of young children predominate, and there may be a question as to whether the trained clinician is putting his special skills to work where they are most needed. Is there adequate discrimination being made between speech problems and maturational misar. The clinician may be devoting his strained efforts to children the might more effectively be served by well-guided classroom teachers. A child may be harmed by labeling him with a speech defect and particularly if it is predominantly a racial or maturational characteristic.



CHAPTER V

Clinical Practice: Remedial Procedures

Discussed in this chapter are duties of the speech clinician regarding: average number of hours per week spent in therapy, in conference, in writing reports, traveling, preparing lessons; teaching techniques; frequency of parent counseling; and other teaching techniques.

Classroom Duties

Therapy for speech problems was the major duty according to thirty-six respondents. Therapy for the hard of hearing is a regular duty for nine respondents. Some of the other duties of clinicians are speech improvement, language development, speech screening, hearing screening, parent-teacher guidance, and dugnostics.

TABLE 29
Duties

Duties	degularly	Occas onally	Never	Not Recorded	Totals
Speech Therap,	38	0	0	2	40
Hearing Therapy	9	11	4	16	40
Hearing Tosting	16	14	1	9	40
Write-ins					
Hearing Screening	1	1			2
Speech Screening	1				1
Language Development	1				1
Diagonistics				1	1
Parent-Teacher Guidan	ce 1				1
Speech Improvement	1			;	
In the Classroom					
Addressing PTA		1			1



Average Number of Hours Spent in Therapy

A majority of the responses indicate that the clinicians' time is spent in therapy; twenty-six reported that they spent between 24 and 30 hours; ter clinicians spent an average of 30 hours weekly. One clinician reported that she spent 38 hours a week in therapy. Clinicians who spent from nine to sixteen hours had other duties such as supervision and language disorders classes.

TABLE 30

Average Number of Hours Per Week Spent in Therapy

Hours	Frequency
Thirty-eight hours	1
Thirty-two to thirty-three hours	2
Thirty hours	10
Twenty-seven to twenty-eight	7
Twenty-four to twenty-five hours	8
Twenty hours	1
Fifteen to sixteen hours	3
Twelve to Fourteen hours	2
Nine to Eleven hours	2*
Not Recorded	4
Total	40

^{*}One clinician works part time as speech clinician.

Average Number of Hours Spent in Conference

As seen in Table 31, there is a wide range in the amount of time spent in conference. One respondent reported seven hours weekly, while 12 reported one hour or less. Another eight clinicians reported three to four hours.



TABLE 31

Average Nui.:ber of Weekly Hours Spent in Conference

Hours	Frequency
Less than one hour	3
One hour	9
Over one nour and less than two	3
Two hours	10
Three hours	6
Four hours	2
Seven hours	1
Not recorded	6
Yotal	40

Average Number of Hours Spent in Writing Reports

One to five hours a week were reported spent writing reports by clinicians. As seen in Table 32, the most common response given was two hours.

TABLE 32

Average Number of Hours Spent Writing Reports

Hours	Frequency
One hour	3
Two hours	15
Three hours	8
Four hours	3
Five hours	3
Not recorded	8
Total	40



Average Number of Hours Spent Traveling

Twenty clinicians reported that they spent two hours or less in traveling time weekly, as seen in Table 33; however, three clinicians spent three hours, and another eight stated that they spent five hours or more traveling.

TABLE 33

Average Number of Hours Spent Traveling

Hours	Frequency
Less than one hour	5
One hour and less than two	5
Tv/o hours	10
Three hours	3
Five to six hours	5
Seven to eight	3
Not recorded	9
Total	40

Average Number of Hours Spent Preparing Lessons

There was a vast difference in the amount of time clinicians spent preparing lesson plans. This may be accounted for by a difference of opinion as to the meaning of "lesson plans." As shown in Table 34, the rang, is from no time spent on lesson plans per week to fifteen hours per week.



TABLE 34

Average Number of Hours Per Week Spent Preparing Lessons

Hours	Frequency
Less than one hour	1
One hour and less than two	3
Two hours	5
Over two to four hours	9
Five hours	11
Five *c eight hours	1
Ten hours	1
Fifteen hours	1
Not recorded	7
None	1
Total	40

Some of the other activities reported by the speech and hearing specialists as demanding their time are diagnostics, gathering and evaluating case histories, language teaching, hearing screening, and supervising other therapists.

Teaching Techniques

Auditory training and mirror observation were the teaching techniques reported most often by the respondents. Phonetic placement was another frequently used technique.



TABLE 35
Teaching Techniques

Techniques	Often	Sometimes	Not Recorded	Totals
Auditory Discrimination Training	38	1	1	40
Ear Training	37	0	3	40
Parent Counseling	12	25	3	40
Mirror Observations and Practice	27	11	2	40

Frequency of Parent Counseling

Table 36 shows a distribution of parent counseling according to clinicians' case loads.

TABLE 36
Frequency of Parent Counseling

Counseled	Articulation	Stuttering	Delayed Speech	Hard-of- Hearing	Organic Problems
Often	9	21	13	15	9
Sometimes	21	15	13	19	17
Never	1	0	1	1	1
Not Re∞rded	1	4	13	7	13
Totals	40	40	43	40	40

Other Teaching Techniques

38

As may be seen in Table 37, numerous other techniques are reported to be used by the respondents.



TABLE 37
Other Teaching Techniques

Techniques	Frequency
Special Education Techniques	
Tactical Stimulation	1
Language Development	3
Phonetic Placement	10
Approximation	1
Sentence Construction	1
Lipreading	2
Imitation and Repetition	1
Games and Drills	5
Free Conversation	2
Lip and Tongue Exercises	3
Play Therapy	1
Tape Recordings	2
Negative Practice	1

Results indicate that respondents used auditory discrimination training, ear training, and mirror observations in practice more often than other teaching techniques. Research studies, tradition and training which the respondents have received are some of the factors that may influence the choice of remedial procedures used by clinicians. However, it is possible that clinicians use a limited number of procedures because they have not had adequate preparation in the use of many approaches.

Clinicians reported other teaching techniques such as "play therapy." Because of ambiguities of terminology, a precise understanding of how clinicians are using such procedures remain nebulous.

Discussion

The extent of report writing, lesson planning, conference with parents vary widely. It appears that some standard program management practices might prove valuable. For example, efficient management probably implies some minimum amount of essential information communicated between key personnel.



CHAPTER VI

Supervision of Speech and Hearing Programs

Clinicians responses to such items as the person responsible for the program, number of observations made by supervisors, professional assistance, types of reports submitted, types of records kept, and clinicians evaluation of conditions for therapy will be discussed in this chapter.

Person Responsible for the Program

Clinicians reported that they were directly responsible to a variety of persons at various levels for the conduction of their therepy program as seen in Table 38. Among those most often cited were superintendent, principal and special education supervisor.

TABLE 38

Person Responsible for the Program

Responsible Person	Frequency
Superintendent	8
Assistant Superintendent	2
Special Education Supervisor	11
Principal	9
Supervisor of Speech and Hearing Services	5
Title I Coordinator	3
Elementary Coordinator and Supervisor	3
Title VI Coordinator of the Regional Rehabilitation Center	4
Special Service Coordinator	1
Cerebral Palsy Board	1
Total	47*

^{*}Some of the therapists are responsible to more than one person.



Number of Observations Made by Supervisor

As seen in Table 39, only one of the respondents reported that she was observed and evaluated weekly by her supervisor, while 23 stated that they were never observed.

TABLE 39

Number of Observations Made by Supervisor

Times Observed	Frequenc	
Weekly	1	
At Least Monthly	2	
At Least Four Times A Year	2	
At Least One to Three Times a Year	10	
Never	24	
Not re∞rded	1	
Total	40	

Professional Assistance

The respondents reported that they received more professional assistance within the school from the classroom teacher than any other individual.



TABLE 40

Professional Assistance within the School

Assisted By	Frequenc	
Nurse	7	
Guidance person	2	
Classroom Teacher	24	
Principal	13	
Supervisor	1	
None	5	
Not Recorded	2	
Total	54*	

^{*}Some therapists receive assistance from more than one person.

Types of Reports Submitted

A majority of the speech and hearing clinicians indicated that they must prepare and submit results of speech testing, results of hearing testing, and therapy progress reports. Other reports that some clinicians are required to submit are state forms, annual and/or semester reports, case histories, statistical reports, lesson plans, medical reports, and psychological reports.



TABLE 41

Types of Reports Submitted

Reports Submitted	Frequency
Results of speech testing	35
Results of hearing testing	30
Therapy progress reports	33
Lesson plans	1
Medical reports	1
Annual and/or semester reports	5
Psychological reports	1
State forms	3
Case histories	2
Statistical reports	3
Not Re∞rded	1

Types of Records

As seen in Table 42, most of the respondents keep records of progress, phonetic improvement, and case histories for each student in their program.

TABLE 42

Types of Records Kept for Each Student

Records	Frequency
Case Histories	23
Phonetic Improvement	28
Progess Reports	31
Audiometric Reports	5
Diagnostic Reports	4
Daily Logs	5
Consultation Reports	1
Record of Improvement or Regression	1
Therapy Plans	2



Therapists' Evaluation of Conditions

A majority of the respondents reported that their working conditions were either excellent or adequate. Twenty of the respondents reported that the therapy rooms were adequate, while 14 reported them to be wanting; only four reported that they were excellent. Supplies, equipment, and salaries were considered excellent or adequate by a majority of the clinicians.

TABLE 43

Therapists' Evaluation of Conditions

Evaluation	Therapy Rooms	Supplies	Equipment	Salary	Supervision
Excellent	4	13	17	9	5
Adequate	20	19	13	18	17
Wanting	15	7	9	11	14
Not Recorded	1	1	1	2	1
Totals	40	40	40	40	40

Discussion

The respondents interpretation of the word "responsible" varied from the person to whom the specialist was immediately responsible to the superintendent. An effective speech and hearing program results when joint responsibility is shared with the superintendent, principal, teachers, parents, and therapist.

Examination of the data shows that a variety of persons supervise public school speech and hearing programs in Mississippi. A majority of the clinicians reported that they were never observed by a supervisor.

It is anticipated that a new role of the speech and hearing clinician will emphasize work with the more severely communicatively handicapped child including those with language impairment. The speech and hiaring clinician would then work more with classroom teachers to correlate speech therapy and language development by helping teachers in the following ways: recognition of speech and language disorders,



understanding the concept of therapy with communicative disorders, keeping informed of activities in therapy sessions, suggesting ways by which the treatment program can be carried over to classroom situations, and assisting in the integration of speech and language objectives in regular classroom teaching, and finally, acting as a consultant for speech improvement.



CHAPTER VII

Speech Improvement

Questionnaire items to be discussed in this chapter include speech improvement programs by clinicians.

Speech Improvement Programs

Of the 40 respondents who completed this item, 32 indicated that speech improvement was not included in their therapy programs.

TABLE 44

Speech Improvement Programs

Speech Improvement	Frequency
Yes	7
No	32
Not Recorded	1
Total	40

Arrangement of Improvement Programs

The data in Table 45 show the arrangement of the speech improvement programs within the therapy programs of those clinicians who reported this activity.

The speech improvement program was reported to be part of the speech and hearing program by four respondents, and a part of the language arts program by two respondents, and used in a high school by one respondent.



TABLE 45

Arrangement of Speech Improvement Program

Arrangement	Frequency
Part of the Speech and Hearing Program	4
Part of the Language Arts Program	2
For the High School	1
Total	7

Discussion

Parents and school personnel are becoming increasingly aware of the need for all children to develop the ability to communicate their ideas effectively in acceptable speech. Many children with minor speech problems may be improved through instruction in the classroom if the teachers received guidance from the speech clinician.

The Mississippi State Department of Education distinguishes between speech improvement and speech therapy as follows:

Speech improvement is concerned with the modification of deviations within a range of normal speech. It is the systematic instruction in oral communication for the purpose of developing articulation, voice, language abilities, and listening skills that enable all children to receive and communicate ideas effectively. Speech improvement is concerned with such skills as pronunciation poiss, projection and inflaction. The speech activities through which these skills are applied and strengthened include formal talks, and reporting relating to various interests and subject areas, oral reading and phonics as a part of reading, choral speaking, creative dramatics, and storytelling. These activities are the responsibility of the classroom teacher and take place in the classroom. The therapist may act as a consultant to this program by providing the



classroom teacher with suggestions regarding planning, activity, and material. 4

Presently there seems to be no agreement as to what field best prepares a person for teaching speech improvement. However, it is generally agreed that regular curriculum experiences should be provided to permit all children to develop the best speech, voice, and language patterns of which they are capable, correct minor speech and voice difficulties, and express their ideas clearly and effectively. Further, it is generally accepted that all classroom teachers should be teachers of speech improvement.

⁴Speech Improvement, State of Mississippi Department of Education, Special Education Division, July, 1969.



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CHAPTER VIII

Summary

The purpose of this study was to describe some current practices and trends in Mississippi's public school speech and hearing programs. The investigation was made by ascertaining information on the following aspects of the speech and hearing clinician and his work: professional title and relationships, screening and diagnosis, classification and distribution of disorders, remedial procedures, supervision, and speech improvement. The study was concerned with public school clinicians who were certified by the Teacher Certification Division of the Mississippi State Department of Education and employed by a public school district during the 1969-70 school year.

A questionnaire (see Appendix B) was designed and forwarded to 49 speech and hearing clinicians employed in Mississippi public schools. Forty clinicians completed their questionnaires and their responses served as the source of the data for the study.

Information concarning aspects of the speech and hearing clinicians' work were summarized and reported in the preceding seven chapters. The writers have presented the data with convictions about the limitations which should be applied to conclusion-drawing from this type of study. Consequently, the results were reported with an effort to let the reader draw conclusions for himself; therefore, the report will end without apology.

The goal of effective professional help for every speech and hearing impaired child in Mississippi is obviously far from a reality. The following lines seem appropriate for the final conclusion of this report:

The Woods are lovely, dark and deep; Birt I have promises to keep.
And miles to go before I steep.
And miles to go before I steep.5

^{5&}quot;Stopping by Woods on a Snowy Evening," Complete Poems of Robert Frost. Holt, Rinehart and Winston, Inc., 1951.



APPENDIX A

Copy of letter sent to Public School Speech and Hearing Personnel in Mississippi.



THE UNIMERSITY OF MISSISSIPPI SCHOOL OF EDUCATION UNIVERSITY, MISSISSIPPI 38677

Dear

The University of Mississippi and the Special Education Services Genter are conducting a study concerning Public School Speech and Hearing Services. The purpose of the study is to investigate the present status of Speech Pathology and Audiology Services in the State of Mississippi.

You are one of a number of persons whom we have selected to provide information concerning the present practices in Public School Speech and Hearing Programs. We sincerely hope that it will be convenient for you to fill out the enclosed questionnaire. The information obtained from this questionnaire will not be identified with the respondent and respondents! replies will be kept in the strictest confidence, with complete anonymity guaranteed.

We would sincerely appreciate your assistance.

Very truly yours,

James W. Mann, Chairman Special Education Department University of Mississippi

June May, Assistant Professor Division of Communicative Disorders . University of Mississippi

JWM:JM/bl

Enclosures



APPENDIX B

Questionnaire completed by Public School Speech and Hearing Personnel



QUESTIONNAIRE FOR PUBLIC SCHOOL SPEECH AND HEARING PERSONNEL

Survey of Public School Speech and Hearing Services

1.	Name: Address:
2.	Age: 20-25 31-35 40-45 over 50 26-30 36-40 46-50
3.	Your Title:
4.	How many years have you been a speech and hearing specialist?
	1st Year 11-15 Years 2 or 3 Years 16-20 Years 4-6 Years Over 20 Years 7-10 Years
5.	Extent of Training:
	Bachelor's Degree Major Coll. or Univ Master's Degree Major Coll. or Univ Master's Degree plus Grad. work: Major: Coll. or Univ
6.	Please indicate your membership in professional organizations:
	State Education Association National Education Association Council for Exceptional Children State Speech and Hearing Association American Speech and Hearing Association Other
7.	Do you hold ASHA Certification: YES NO
	ASHA Speech Pathology ASHA Audiology



8.	Supervised Teaching During Your Training: Indicate which of the following were included in your training:
	Regular Classroom practice teaching Public School Speech Therapy
	Speech Clinic practicum
	None
	Other
9.	To whom are you directly responsible for the conduct of your program:
	Superintendent Principal
	Sp. Ed. Supervisor Supervisor of Speech & Hearing Services
	Other
	Weekly At Least Monthly
	At Least Four Times a Year
	At Least One to Three Times a Year
	Never
1.	What single area of training, besides speech and hearing, has been of most value to you:
	Special Education
	Psychology
	General Education
	General Speech
	Other
2.	Have you ever been employed as a regular classroom teacher:
	Yes If yes, number of years employed
	No



13.	How do you locate the children with speech and hearing disorders:
	Class Visitation
	Teacher Referral
	Individual Screening
	Questionnaire or Inventory
	Other
	Other
14.	Do you have available or access to the following tests and reports in
	the students files:
	Routinely Only in Special Cases Not at all
	Vision tests
	Intelligence tests
	Achievement tests
	Health records
	Cumulative records
15.	Who does the audiological screening:
	Nurse
	Volunteer
	Audiologist
	Other
16.	Who does the audiological testing?
	Audiologist
	Otolaryngolugist
	——— General Physician
	Other
	Other
	At what grade levels is audiological screening done:
17.	Are medical referrals for hearing loss made for children who:
	Fail Audiometric Screening
	Display Mild Loss
	Display Moderate Loss
	Display Severe Loss
	No Medical referrals are made
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ow many students do you now have in each of the following assification: ${}^{\circ}$
Articulation
Stutterers
Voice
Hard-of-hearing
Cerebral Palsy
Delayed Speech
Mental Retardation
Other ,
lassroom Teacher
perintendent
ho must approve the admission of a child into your thera
ogram:
Parent
man and a second control of the second contr
Physician
Principal Principal
Principal Principal
Principal Other
Principal Other hat types of reports do you submit:



23.	With what frequency do you recommend referrals to the following: Frequently Occasionally Never
	College or Univ. Speech
	and Hearing Clinic
	Rehabilitation Agencies
	Medical Profession
	Psychological Services
24.	What is the average number of hours you spend each week in each of
	the following:
	ND. of HDURS
	Therapy
	Canferences
	Writing Reports
	Traveling
	Preparing Lessons
	Other
25.	How would you are true and of the following
2 0.	How would you evaluate each of the following: Excellent Adequate Wanting
	Therapy Rooms
	Supplies
	Equipment
	Salary
	Supervision
2 6.	Is there a speech improvement program in your system?
	Yes No
	If yes, is it:
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Part of the speech and hearing program
	Part of the language arts program
	Other
27.	What are the manner of the Considerational Tests than your dark insurance
27.	What are the names of the Standardized Tests that you administer?



28.	From whom do you receive the most professional assistance within the school?
	Nurse
	Guidance person
	Classroom teacher
	Principal
	Other
29 .	What are your plans for the next live years?
	Continue as a public school speech and hearing therapist
	Return to school for graduate work
	Secure another education position such as teaching.
	administration, etc.
	Other
30.	What is the frequency with which parent counseling is used in the treatment of the following disorders?
	Often Sometimes Never
	Articulation
	Stuttering
	Delayed Speech
	Hard of Hearing
	Organic Problems
31,	Do you feel it is desirable for the speech therapist to have a teacher's certificate?
	Yes No
32.	What is the distribution of your weekly caseload:
	Individual Group
	Total number of children seen each week
	Number of sessions per week
	Average size of groups
33.	How many of the following types of schools do you serve?
	Elementary
	Junior High
	Senior High



What type of records do you keep for each of your students?				
	Case History			
	Phonetic Impr	rovement		
	Weekly or mo	nthly Progra	ess Report	
	Other		<u> </u>	
Do you	ever engage in _l	private prac	tice?	
	Yes		. No	
What an	your duties?			
	y Occasional	ly Never		
	•	•	Speech therapy	
			Hearing therapy	
			Hearing testing	
			Other	
			Other	
	sching techniqu Sometimes	ies do you (use?	
		Auditory I	Discrimination Training	
		Ear Traini	n g	
		Parent Cos	unseling	
		Mirror Ob	servations and Practice	
		Other		
		Other		

